

11518 - 11566

11641 - 11704

*Handwritten:* 11518-11704  
**MEMO**

80 SHEETS - 3-IN. x 5-IN. • No. L-1

DISTR. SOLELY BY CROWN ZELLERBACH CORP.  
BOX 774B, SAN FRANCISCO, CALIF. 94120

\$10.<sup>00</sup> REWARD

for return to

Arthur Cronquist

New York Botanical Garden

Bronx, New York 10458

Scientific data,

of no commercial value

11518 - 2 June, 1976

Moffat Co, Colorado.

With sagebrush on  
sandstone substrate on  
the Yampa Plateau,  
shortly northeast of  
Stuntz Reservoir, not far  
~~seaward~~  $\frac{1}{2}$  km from the  
Utah border.

Twp 6N, R. 104W, S. 35.

Herb. ca 2300m. Petals  
white. Stamens 10.  
Styles 5.

*Cerastium arvense* L.

*Cerastium* (10) - 0.602

1518 - 2 June, 1976.

Uintah Co., Utah.

Barren, northeast-facing  
clay slope <sup>Snake John Reef,</sup> beneath a shaly  
sandstone reef in the  
desert ca 6 km. ~~west~~  
northwest of Dinorant,  
Colorado, and shortly west  
of the Utah Colorado state  
line. Twp. 6S., R. 25E., S. 26.

Elev. ca 1700 m.

Flowers bright light  
yellow.

*Eriogonum ovalifolium* Nutt.  
var. *ovalifolium*

*Eriogonum*  

11520 - 2 June, 1976  
Uintah Co., Utah.

Sandy clay flats in  
the desert with *Sarco-*  
*batia* and *Artemisia*, ca. 25  
~~30~~ km. airline north of  
Bonaanza. Twp. 7 S., R. 24 E.,  
S. 1, E. 1, ca. 1500 m.  
Flowers yellow.

*Mentzelia albicaulis* ✓  
Dougl. ex Hook.

*Mentzelia* (10)

11521 - 2 June 1976.  
Uintah Co., Utah. With  
scattered pinipers on  
barren red clay knolls  
ca. 25 km. airline north  
Bonanza. Twp. 7S., R. 24E.,  
S. 1. Elev. ca. 1600 m.  
Stems numerous,  
clustered on a taproot  
and branching caudex.

*Astragalus saurinus*  
Barneby  
det. R. C. Barneby

*Astragalus* (10)

11522 - 2 June, 1976.

Uintah Co., Utah.

Same place as 11521.

Flowers yellow.



*Cryptantha flava* (A. Nels.)

Payson

Yellow *Cryptantha* ①

11523. 3 June, 1976  
Cintach Co., Utah.  
North-facing sagebrush  
slopes just south of  
the saddle at the south  
end of Limestone Mt.,  
ca 30 km. airline  
north-northeast of Vernal.  
Twp. 4 N., R. 22 E., ca. S. 20.  
Elev. ca. 2400 m. Stems  
solitary, or sometimes 2-3,  
on a thickened root.  
Flowers blue. ✓

*Mertensia fusiformis*  
Greene

*Mertensia*

10



11524 - 3 June, 1976.  
Uintah Co., Utah. With  
~~sage~~ sagebrush in the saddle  
at the south end of  
Jonestown Mt., - as in 11523.  
Flowers yellow.

*Viola nuttallii* Pursh  
var. *vallicola* (A. Nels.)  
St. John

*Viola vallicola* (2)

11525-3 ~~June~~ June,  
1976. Uintah Co., Utah

Same place as 11523.

Plants forming rather  
loose mats, with short,  
suberect flowering branches.  
Flowers relatively large,  
white to sometimes pink.

Growing with # 11526,

*P. hoodii* var. *canescens* (T. & G.) M. E. <sup>poor</sup>

and <sup>evidently</sup> ~~apparently~~ hybridizing  
with it, but on the average  
flowering later, just now  
coming into full bloom.

*Phlox multiflora* W. Wats.

*Oenothera* (10)

11526 - 3 June 1976

Uintah Co., Utah

Same place as 11525. Plants  
pulvinata caespitose.  
Flowers white to pink.  
Gynaeceum white to pink,  
P. multiflora 11525,  
and apparently hybridizing  
with it, but containing  
flowers of various colors, now  
mostly pink to white.

*Phlox hoodii* Richardson.

var. *canescens* (T. & G.) M. Don

small phlox (14)

11527-3 June 1976.  
Udall & Co. Utah.  
Same place as 11523.  
Leaves glaucous.

*Cymopterus longipes* S. Wats.

*Cymopterus*

11528-3 June, 1976  
Utah Co, Utah  
With scattered junipers  
Snake John Reef,  
a shaly sandstone reef  
in the desert ca 6 km.  
in the northwest of  
Dinosaur, Colorado,  
and shortly west of the  
Utah-Colorado State line.  
Twp. 6S., R. 25 E., S. 10 N.  
ca. 1700m. Stems clus-  
tered ananthy base.  
Leaves glaucous. Flowers  
bright yellow.  
*Stanleya pinnata* (Pursh) B. & P.  
var. *integrifolia* (Gray) B. & P.

*Stanleya* (10) 22

11529

11 June 1951

Duchesne Co., Utah.

Pinyon-juniper wood-  
land along the crest of  
the ridge ca 2 km. west  
of the head of Mallett Draw  
and ca 50 km. airline  
south southwest of

Roosevelt. Twp. 11 S.,

R. 15 E., S. 5. Elev. ca.

Flowers at first  
dull whitish, becoming  
more pinkish in age.

*Chamaechaenactis scaposa*  
(Eastw.) Rydb.

*Chamaechaenactis* (10) 9

11530 - 4 June, 1976.

*Dioscorea* sp. 11530.

Same place as 11529.

Flowers white with  
yellow stamens  
and yellowish green  
anthers.

Nodes deeply tuberculate-  
rugose, tubercles small,  
sides of nodes slightly  
constricted near or below  
the nodes, and with an  
evident raised border.

*Cryptantha* sp. 11530.

(A. Nelson)

*Cryptantha* (6)

11531 - 4 June, 1932.  
Duck Lake Co., Utah.

Same place as 11529.

Growing with #  
11530, *C. flavoculata*  
(A. Nels.) Payson. But

distinctly smaller  
in the vegetatively and  
florally.

Nutlets nearly or fully as long  
as the style, evidently  
tuberculate-rugose on both  
sides, with a narrowly open  
scar, not constricted.

*Cryptantha* *brunnea* Payson  
var. *brunnea* (10)  
*brunnea* *Cryptantha* ~~8~~



11532 - 4 June, 1976.  
Duckhorn to Sta L.

*Lamprolaima* sp. 1976.  
Flowers lavender.

*Astragalus puberulissimus*  
T. & G.  
det. R. C. Barneby

*Lupinus albus* L. (10)

11533 - 4 June, 1936.

Same place as 11529.

Flowers bright  
pink-purple, the  
banner with a  
central paler spot.

*Astragalus detritalis*

M. E. Jones

det. R. C. Barneby

Tiny astragalus: (11)

11534 - 4 June, 1976.

Samopana 11534.  
Plants slightly  
arborescent. Flowers  
white.

*Gilia congesta* Hook.  
var. *congesta*

*Gilia* (10)

11535 4 June 1976  
Duchesne Co., Utah.  
Same place as 11539.  
Flowers pink-purple

*Astragalus mollissimus*  
Torr.  
var. *thompsoniae* (S. Wats.)  
Barneby  
det. R. C. Barneby

... (3)

11536 - 5 June, 1976  
Duchesne Co., Utah

Same place as 11529.  
Plants apparently  
biennial, mildly  
mephitic. Flowers  
~~scarlet, rarely~~  
ochroleucous.

*Gilia aggregata*  
(Pursh) Spreng.

*Gilia aggregata* (5) 250

11537 5 June 1976  
Duchesne Co., Utah  
~~Sand~~ With sagebrush  
on sandy clay flats  
beneath sandy shale  
outcrops along Gate  
Canyon ca 50+ km.  
South-southwest of  
Hatch, Twp 11S,  
R. 15E., S. 16-17.  
Elev. ca 2000 m.  
Flowers yellow.

*Calylophus lavandulaefolius*  
(T. & G.) Raven

yellow *Amaranthus* ? (10)

11538 - 5 June, 1976.  
Carchesne Co., Utah.  
Same place as 11537.  
Bracts scarlet.

Castilleja scabrida  
Eastw.

det. Noel Holmgren

Castilleja

(4)

11539 June, 1926

On low to steep  
sandy slopes  
and flats with juniper  
and sagebrush below  
sandy shale <sup>(Bad Lands Cliffs)</sup>  
along Gate Canyon,  
50+ km. airline south  
southwest of Roosevelt.

Twp. 11 S., R. 15 E., S. 16-17.  
Elev. 2000 m. Plants  
forming dense to loose  
mat communities.

Rays 5, white. Disk  
dark reddish

Parthenium flowers

(M.E. Jones) Barneby 11

*Parthenium alpinum* Hoff



11540 June 22

10000 ft. high

Sandy clay, clay shale  
above the head of Franks Canyon  
by shale outcrops  
in Artemesia (Bad Lands Cliffs)  
Sarcobatus

- Abundant in ca  
30+ <sup>airline</sup> miles south of

Roosevelt. Twp. 11 S.

R 161-7 S. 19<sup>20</sup> E. Elev.

ca. 21000 ft. Rays ~~20000~~

(24) 25-50 white to tan fls.  
Low order.

Erigeron pulcherrimus Heller

var. pulcherrimus, passing to  
var. wyomingia (Rydb.) Cronq.

Erigeron pulcherrimus (10)

11341 - 5 June 1971

Desert

~~Gravelly clay slopes~~

~~below Bad Lands~~

~~Cliffs, ca 50 km <sup>airline</sup> south~~

~~of Roosevelt Twp. 115,~~

~~with Artemisia~~

~~below Bad Lands Cliffs~~

~~ca 50 km <sup>head of Bull Canyon,</sup> airline south~~

~~of Roosevelt Twp. 115,~~

~~R 175, S 20. Elev. ca. 1700~~

~~m. Stems clustered and~~

~~tapered and branched, gray,~~

~~corolla white, with white~~

~~salmon <sup>subnate</sup> flowers, nutlets~~

~~nearly smooth dorsally and ventrally,~~

~~only slightly roughened.~~

Cryptantha (10)

Cryptantha

granatilis

I.M. Johnston

11542 5' 10" 100'

September 20, 1906.  
 To the Hon. Secy. of the Interior,  
 Washington, D. C.  
 Dear Sir:

Linum catharticum (Green)  
Winkler

10

15-16 June, 1976  
Duchesne Co., Utah.  
Gravelly flat at the  
fork of French Canyon,  
ca 500' from airline south  
of Kress Rd. Twp. 1 S.,  
R. 12 E., S. 27. Elev. ca.  
17000'. Shrubland  
with sparse grasses.  
~~Adiantum~~ *Adiantum* ~~sp.~~ *sp.*  
the most common plant.

*Stragalus racemosus*

Pursh

var. *treleasei* C. L. Porter

det. R. C. Barneby

*Astragalus* (9)

1340

1544 - L June, 1976

Duchesne Co., Utah.

Gravelly, sandy clay  
slopes and benches  
below shaly Badlands  
Cliffs north of  
Mink-mile Canyon,  
and ca. 50 km. aerial  
south of Roosevelt.

~~E.~~ Twp. 11 S., R. 17 E. S27.

Elev. ca. 1650 m. Stems

~~are~~ tufted on a stout taproot  
and branching caudex.

Leaves rather light yellow.

*Hymenopappus filifolius* Hook  
var. *megacephalus* Turner

*Hymenopappus* f.

(10)

~~11544~~ 11545 6 June,  
1976. Duchesnois, alt.  
Same place as 11544.

Plants apparently creep-  
ing by slender lateral  
roots. Herbage glaucous.  
Heads yellow. Rays mostly 8,  
relatively large and showy,  
mostly 12-22 mm. long  
~~and~~ and (7) 10-16 mm  
wide.

*Thelyperma subnudum*  
A. Gray var. *subnudum*

*Thelyperma* 20

11546 6 June, 1976

Duchesne Co., Utah.

Same place as 11544

Forming dense mats or  
mounds from ~~about~~  
a stout taproot and  
branching caudex.

Perianth white or  
slightly pinkish.

*Eriogonum shockleyi* S. Wats.  
var. *longilobum* (M. E. Jones) Reveal

*Eriogonum*

(7)

11547 - 6 Jan, 1976.  
Duckwater Co. Utah.  
Lampbrush 11544

*Euphorbia fendleri* T. & G.

*Euphorbia* 2)



11548 - 6 June 1976.

Duchesne Co, Utah.  
Same place as 11544.  
Stems clustered on a  
stout taproot and  
branching caudex.  
Heads discoid, yellow.

*Machaeranthera grindelioides*  
(Nutt.) Shinn.

Mach. Grindeloides (3)

11549 - 6 June, 1946  
Barren, high, Red  
clay slopes with a col-  
or of yellow, orange,  
and red. pyrene,  
just so-called. In  
summit between  
Indian Creek and Indian  
Creek. Looking  
Whitmore Park, ca 2-3 km.  
east-northeast.  
Washington, Twp. 12 S.,  
R. 12 E., S. 27, E. 2, ca.  
2200 m. Flowers white,  
with light yellow  
tubercles strongly rugose-tuberculate on both  
sides, or more tuberculate-muricate  
ventrally; scar with a high border, slightly  
constricted below the middle. *Cryptantha*  
*mensana*  
(M. E. Jones)

11550- 6 June 1976

Carbon Co., Utah.

East-facing bunchgrass  
slope overlooking  
~~the~~ Soldier Creek, in  
Whitmore Park, ca 27 26  
km. airline northeast  
of Wellington. Twp 12 S.  
R. 12 E., S. 33. Elev.  
ca. 2150 m. Bracts  
green through gold to  
orange-redish.

Castilleja Flava S. Wats.

det Noel H Holmgren

Castilleja

(10)

11551 June, 1956  
Sandy Co. Wash. Shale  
and Sandstone slopes at  
the Corner 297th  
Payson Highway, west  
of the line. Northwest  
of the Twp. 21 S. R. 7 E.  
Elev. 1150 ft.

Flowers yellow.  
Nutlet smooth and  
shining, only one  
maturing

*Cryptantha Flava* (A. Nels.)  
Payson

*Apocynum androsaemifolium* (10)

June 2. J. Greer 1995  
Emery Co., Utah,  
Sample 0511551.

Plants with a strong  
taproot, forming  
dense cushion-mounds  
1-3 dm. wide.  
Flowers white.

*Arenaria hookeri* Nutt.  
var. *desertorum* Maguire

(4)

11553 - 7 June, 1976

Emery Co., Utah.

Barren, gravelly clay  
~~slopes shortly southeast~~  
~~of the Coal Cliffs and~~  
ca 8-10 km. airline  
southeast of Alton.

Twp. 21 S, R. 7 E., S. 35-36

Elev. ca. 1800 m.

Rays 25-43, which are  
faintly lavender

~~between Coal Cliffs and~~  
~~Moten Reef~~

*Erigeron pulcherrimus* W. & A.  
var. *pulcherrimus* ✓

*Erigeron pulch. n.p.* (4)

11554 June 1922

From up to table, growing  
on a clay slope, <sup>and lots</sup>  
scattered *Cercocarpus*, *Quercus*,  
and *Atriplex*, just northwest  
of South Sea Blvd Wash, ca 20  
m. airline northwest.

~~More~~ More 1922 S. R. R.

2. Plant ca 1800m.

Rays 8(-10) yellow.

Fls. a little  
darker than the rays  
(more golden)

*Gaillardia spathulata* A. Gray

in flower

(5)

11555 7 June, 1976  
Canyon Co., Idaho

Along a north-facing  
road at the east foot of  
the mountains, ca 19 km.

South-southeast of Emery.  
Twp 23S, R 5E, near  
the corner of Sections  
33, 34, 35 and 36. Elev.  
ca. 1950 m. Colonial  
shrubs mostly 2-3 m. tall.

*Salix exigua* Nutt.  
var. *stenophylla* Rydberg

*Salix exigua* (9)



11556 7 June 1956

Senier Co., Utah.

Gravelly flats rising  
a north. trending wash,  
well above the gully. bottom  
----- from 11555.

Corolla white with  
golden fornice

Whitlets strongly rugose-  
tuberculate-reticulate  
on both sides. Scar with  
an elevated border,  
slightly constricted  
below the middle.

*Cryptantha flavoculata*  
(A. Nels.) Payson

*Cryptantha*

(6)

11557-8 June, 1976

Sevier Co., Utah. A weed  
in a broad, low dry meadow  
like draw ca 23 km. airline  
southeast of Emery.

Twp. 24 S., R. 5 E., S. 6 or 7  
Elev. ca. 2100 m.

Flowers lavender-purple.

*Malcomia africana* R. Br.

*Malcomia* (10)

11558 6 June 1976

Senier Co., Utah. Open

pinon-juniper slopes on both

~~Savillea~~ sandstone and  
volcanic boulder substrate,

Plants prostrate, green-  
ish, small, with one  
this year. Flowers  
white, slightly  
pinkish, almost white;  
keel distinct purple

ca 23 km airline southwest  
of Smoky, Twp. 24S, R. 5E, <sup>or 7</sup>  
Elev. ca. 2100 m. Stems clustered  
or taproot, curved, ascending.

*Astragalus lentiginosus* Dougl.  
var. *araneosus* (Sheld.) Barneby  
det R.C. Barneby

Barneby 11558 (10)

11559 - 8 June, 1976  
Sevier Co., Utah.

Same place as 11557  
Flowers yellow.

Pappus bright white,  
2 of the bristles  
stronger and more  
persistent than the others.

*Malacothrix torreyi* A. Gray

✓

*Malacothrix* ♀

11560 - 8 June, 1976

Sevier Co, Utah. In  
open piñon-juniper  
woodland on a south-  
facing slope stream  
with volcanic boulders  
ca. 23 km. airline south-  
west of Emery, Twp. 34  
S, R. 5E., S. 6, E. 10, ca. 2100  
m. <sup>Fort</sup> Plants becoming  
colonial by slender,  
longer & creeping roots.  
Flowers orange.

*Sphaeralcea coccinea* (Pursh)  
Rydb.

*var. discolor* (Nutt.) Kearney

*Sphaeralcea coccinea* (10)

11561 - 8 June 1976  
Cedar Co, Utah. Just  
below the edge of the  
pinon-juniper ~~monte~~  
meadowland, on mixed  
shaly sandstone ~~and~~ and  
volcanic boulder substrate  
along a broad, shallow  
draw ca. 23 km. south-  
west of Emery. Twp. 24S.,  
R 5E., S. 6 or 7.

*Lesquerella intermedia*  
(S. Wats.) Heller

*Lesquerella* 27

11562 - 8 June, 1976

Sevier Co., Utah. ~~Sierra~~

~~Just beginning to flower~~ On  
the <sup>lower</sup> edge of the pinon-  
juniper ~~scrubland~~  
woodland - as in 11561

Flowers lavender.

Plants just beginning  
to flower.

*Penstemon jamesii* Benth.

subsp. *ophianthus* (Pennell) Keck

det. Noel H. Holmgren

Penstemon ①

11563 - 8 June 1976  
Senior Co. Utah  
Sampled as 11563

Plants ~~forming~~ prostrate, forming small mats on the surface of the ground; Barkers white; wings faintly lavender, almost white; ~~leaf~~ keel blue-purple.

Astragalus castaneiformis ✓  
S. Wats.

var. consobrinus Barneby  
det. R.C. Barneby

Astragalus ①



11564 - 8 June 1976.

Garfield Co., Utah. In  
pinon-juniper woodland  
on shallow sandstone  
slopes and ledges along  
a road, bare down ca.  
1.5 km. airline south-  
west of Quarry, Twp.

245. N. 55. S. 6 or 7.

Elev. ca 2100 m

Herb. yellow. Rays 5-10,  
most commonly 8.

*Senecio multilobatus* T. & G.

*Senecio multilobatus* (6)

~~11564~~ 11565. 8 km. NE  
Larimer Co., Utah. North  
slope with mixed  
pinus, juniper,  
sagebrush, and  
ponderosa pine, etc.  
33 km. airline northeast  
of Tuba, and shortly north  
of Paria Valley. Twp.  
23 S. R. 4 E., about S. 14  
E. ca 2350 m.

Plants colonial, spreading  
below ground. Sepals  
dark blue.

*Clematis pseudoalpina* (Kuntze)  
A. Nels.

*Clematis*

9

11566 - 8 June, 1976

Senier Co., Utah

Samplacito 11565.

Corolla white

*Androsace septentrionalis* L.  
var. *glandulosa* (Wootton & Standley)  
St. John

*Androsace*

(4)

11567. 30 April, 1977.

Clinton Co., New York

On limestone substrate  
in mixed hardwood  
forest ca. 4 km. north-  
west of Raika, New York.

100+ m. Tepals most  
commonly 6, sometimes  
8

*Hepatica acutiloba* (2)

11565 - 30 April, 1947.

Clinton Co., NY.

Same place as 11567.

Fls. white or pinkish,  
with darker pink

undersides

*Claytonia caroliniana?*

11569 30 April, 1977  
Clinton Co., N.Y.

Same place as ~~11560~~

11568. Leaves not yet  
fully unfolded,  
slightly paler beneath  
than above. Flowers  
nodding. Tepals loose,  
scarcely divergent,  
bright yellow.

*Arachnoidia grandiflora* (2)

11570 + 11571 -

Amelanchier frax.

Ulmus p. huls -

→ ... - caudex





1572 - 22 May, 1977  
Clinton Co., N.Y. In fairly  
moist, shady place in  
mixed hardwood and  
coniferous forest, on  
limestone substrate.  
About 4.5 dm. across  
at base. Stem ca. 100 cm  
high, slender, but very  
at base. Flowers  
white-lined, light yellowish  
yellow, in the center  
of the petals. The central ones  
blow away. The  
outer ones pair better. The  
inner ones present the same

Clintonia (2)

11573 5 June 1970

Franklin D. Roosevelt

In second growth mixed  
deciduous woods ca

1 km. northwest of

Kesler, Iowa, 10 km. of  
Hendricks. Elev. ca 350 m.

Shrubby, deciduous, spreading  
about 4-12 dm. tall  
flowers white.

*Chamaecrista nictitans* (L.) (3)

11574 - 14 June, 1972

Cumberland Co., Pa.

In oak woods on granitic  
substrate ~~in~~ in Mountain

... ..  
... .. ca 5

Southeast of Pine Grove

Flowers ... ..  
... ..

Shrubs 1-2 m. high. Young

Twigs ... .. Leaves

... .. the lower surface

... ..

with small, yellow glands.

Flowers white.

*Gaylussacia frardora* ③

11575 - 15 June, 1977

Perry Co., Pa. In  
mixed deciduous forest  
on stony, granitic slope  
ca 20 km. southwest of  
New Germantown  
Elev. ca 400 m.

Slender, ca 4, single-  
trunked shrubs 2-2.5  
m tall. Stems mostly  
4, sometimes 5

Her?

(3)

11576 - 15 June, 1972

Centre Co., Pa. In open

hemlock-larch wood  
forest on a siliceous  
substrate, ca. 0.5 km. southwest  
of Pac Valley Campground,  
Bald Eagle State Forest,  
in Long Mountain.  
Elev. ca 400 m.

39,2

*Paricum californicum* 3

11577 15 June, 1977.  
Same place as 11576.

*Panicum dichotomum* (3)

1578

Platanus 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Euphrasia officinalis L.

Euphrasia officinalis (3)

11579 - 21 June, 1978

Emery Co., Utah  
Rocky, west-facing slope  
beneath massive sandstone  
cliffs at the confluence of  
Furnace Creek with  
Cockhorn Wash, ca 30  
km. east of Tule Dale.  
Twp. 19S., R. 11E., S. 18.

Elev. ca. 1650-m. Plants  
evidently perennial, possibly  
creeping below-ground, but  
no direct connections seen.

Rayless - yellow, 7-11,  
mostly 8. Disk light yellow.

*Gaillardia spathulata* A. Gray

*Gaillardia* (4) 11579



11580 - 21 June 1988.

Timber Co., Utah. Rocky,  
west-facing slope beneath  
massive sandstone cliffs in  
Beechhorn Wash, ca 10  
km. above its confluence  
with the San Rafael River,  
and ca. 30 km. east of Castle  
Nate. Twp 12N, 6E, 11S, S  
29. Elev. ca 1600 m.

Many branched, rounded  
shrubs 1-7 dm tall. Rays  
blackish, long, 1-2 in  
number. Inner whorls 1-2  
orange-yellow.

*Eriogonum frutescens* A. Gray

1. Enc. (10) 1

11581-71 June 1992, July 10,  
Utah. On a dry, very sandy  
bank at the confluence of  
creek 200m with Cold  
Spring. Shrub about 1m high -  
brown. Herb ca. 40-50cm,  
erect, succulent, green.  
Culm. Tapering ~~to~~ 20cm,  
R. 11E., S. 2. Elev. ca.  
1600m. Plants creeping  
~~below the ground~~. Plants  
with deep, scaled, creeping  
roots. Leaves small.

*Dalea flavescens* ✓  
(S. Watson) Wats  
Det R. Barney, 1992

same place as 1003.

very little.

Same place as 1003.

~~Stems clustered on a~~  
~~rather~~ Stems (1-) several  
on a rather slender  
taproot. Flowers white.

*Cryptantha cinerea* (Greene)  
Cronq. var. *cinerea*  
(*C. jamesii*)

*Cryptantha jamesii* (L)

June 21 June 1921  
Grassy slope. In deep  
canyon of the creek in  
valley of the canyon, a tributary  
of Buchanan Creek,  
ca. 2 miles east-southeast  
of Little Dale, Grayson  
Co. 112° E. 2. Elev. ca.  
1600 m. Plants low-  
ermost, prostrate;  
and signs of prostrate  
flowers bright purple  
or pink-purple.

*Cirsium pulchellum*  
(Greene) Wootton & Standley

Grass 300 ft.,  
300 ft.

tributary of Beechhorn  
Wash, ca 40 km. east -  
southeast of Castle Dale.

Elv. ca. ~~1650m~~ 1650m.  
Stems ...  
leaves ...  
flowers rather  
large ...  
3-4 cm. diam.

*Hymenocallis filifolia* Hook.  
var. *cinerea* (Rydb.)

I. M. Johnston

*Hymenocallis* sp. (10)

21 June 1976.

very so. Utho. Same  
down 1984. It was  
insects, I entered on  
a great and branching  
and coarse but  
perhaps essentially  
wild. H. H. H. H. H.  
H. H. H. H. H.

Send to spatio-<sup>✓</sup>itis.

spatio-<sup>(5)</sup>

11556- 22 June, 1978.

Emergy Co., 10700, 10000

Sandy desert ca. 25 km  
west of the ~~Little~~ <sup>Little</sup> ~~730~~ <sup>730</sup> ~~730~~ <sup>730</sup>

ca 25 km. northwest of  
Hanksville. ~~T. 215, R. 135.~~

~~215~~ T. 215, R. 135.

S. 20. Elev. ca 1600 m.

T. 215, R. 135.

Emergy Co., 10700, 10000

Emergy Co., 10700, 10000

*Gilia gunnisonii* T. & G.

*Gilia gunnisonii* (G.)

515

Hs 11561 11640, 1st 1778,  
are in another box.



11641. 11 Apr. 1950.  
Fog. in Virginia  
East slope of  
Massanutten Mt.,  
shortly east of New  
Market Gap. Understory  
tree 6-10m. in mixed  
deciduous woods.

Racemes tending to be  
lax, nodding soon after  
the twig is cut.  
Petals white

*Amelanchier arborea*  
(Michx.f.) Fern.

✓

*Amelanchier arborea* (2)

11642. 11 May, 1980.

Franklin Co., Massachusetts, Second growth  
mixed hemlock-hardwood  
forest mostly north  
of Huggles Pond, town  
of Wendell. Arborescent  
shrubs ca 5 m. tall.

Elev. ca 300 m. Leaves

tinged with coppery-red.  
Inflorescence lax, soon  
drooping after a twig is  
cut. Petals white, 16-20

Ovary glabrous <sup>on top</sup>.  
mm. long. With #s 11643,  
2. arborea, and 11644, a  
canadensis.

*Amelanchier laevis* Wieg.

*Amelanchier laevis* (3) ...

11643. May 1950.

Same place as 11642. Inflorescence  
erect, soon drooping  
after a twig is cut.

Petals white, 14-17 mm  
long, very glabrous on  
top. With #11642,

*R. canadensis*,  
*R. canadensis*,  
*R. canadensis*.

Arborescent shrub ca. 5  
m. tall.

*Amelanchier arborea* (Michx.f.)  
Fern.

*Amelanchier arborea* (Michx.f.)  
Fern.

11644 - 11 May 1937.  
Same place as 11642,  
in the forest on the  
east side of the  
road. Petal white,  
green leaves, young  
greenish red.  
1500 ft. 11642, 11643,  
and 11644 are all in the same place.

*Amelanchier canadensis*  
(L.) Medic.

*Amelanchier canadensis* (L.) Medic.

11645 12 (June 1950)

Mesa County, Colorado.  
With *Sarcobatus* and several  
grasses on rather alkaline  
gentle slopes not far below  
sandstone cliffs on the  
north side of the valley  
of the Colorado River,

Ca. 45 km <sup>upriver</sup> ~~miles~~ upstream  
from Grand Junction

Junction. Twp. 8S., R. 97E.

Elev. ca. 1500 m. Short-  
lived perennial. Heads  
bright yellow. Rays  
5(-8), 7-17 mm long.

Ca 11 km. upstream (airline)

on the upper end of Duff Creek  
*Psilostrophe bakeri* Greene <sup>conyon.</sup>

*Psilostrophe* (10) 2392

11600 13 June 1950  
Grand Junction, Utah  
with grassland and shrub  
juniperus near west  
of bridge, on —  
lower west of the Colorado  
Utah border, along  
the highway between  
Grand Junction and  
Green River. Twp. 19S., R. 25E.,  
Elev. ca ~~1500~~ m. S. 10.  
1450  
Taprooted ~~perennial~~ perennial.  
Stems erect, yellow.  
Leaves 2-4, 2 or long.  
Flowers white.  
Veg. 10-15 cm. (7)

11647. 14 June, 1980 Twp. 27S.  
R. 11E.  
S. 11.

Emery County, Utah.

Sheltered places among  
sandstone rocks in the right  
fork of the right fork of Pine Canyon on  
the north edge of the San Rafael Swell.

Elev. ca. 1700 m. Flowers  
distinctly reddish in bud,  
less so in anthesis.

Sepals and spurs faintly  
concolorous; petal blades  
white. Only 3 plants  
seen. A slightly

erect intervals in  
canyon. These materials  
are from a plant.  
*Agrostis* - *terrestris* Eastw.

11647 (2)

---

A. B.

*Wyeleia scabra*,  
At call springs  
Average 13-17 rays.  
*Amphilectus*,  
From basin,  
12-13 rays,  
3.5-6 cm. long  
*Arnicia serrata*  
8-16, after 13 rays.  
12-20 mm long



11655

San Jo. Mts. With sagebrush  
in volcanic area along foot  
Mesquite Lake, shortly above.

Its confluence with the  
Arroyo River, about 20 km

in road section of  
Mountain City, Nev.

ca 1800 m. Twp 44 N,  
R. 14 E, S 23.

Leaves with 1-2 small  
stems, 1-2 mm in height  
above - 1-2 mm in  
height - 1-2 mm in

11656

Phacelia sericea var. (6)

11649. 25 June 1980  
~~Elk~~ Echo Co., Id.  
With sagebrush on western  
slope along Lost  
Meadow Creek. etc.  
as in 11603.

Herb with a tall, slender, 4-  
branched, smooth and  
usually green stem.  
Corolla white, purple

Plant height 6

11/20 28 June 1980  
Elko Co. Nev. with  
rag bluish in volcanic  
area along Fort Mohave  
creek. elev. 11600'

*Hackelia patens*  
(Nutt.) Z. Johnston

Perennial with usually  
2- several ascending stems.  
Corolla white, lobes with  
a pair of blue spots on each

*Hackelia patens* (2)

11651 - 20 June, 1980  
Elko Co., Nev.  
Same place as 11649

Shrub 1-2 m tall  
Petals white. 5-10 mm long

*Amelanchier utahensis*  
Keck

*Amelanchier utahensis* F.

52 20 June, 1980

Elber Co. Nev., with

*Artemisia arbuscula* in low,  
stony (quartzite and dark  
igneous) clay ridge in  
Dull Run Basin, east of  
the reservoir, about 24  
km airline southwest of  
Mountain City. Twp 43 N.,  
R. 52 E., S 10. Elev. ca.  
1900 m. ~~Heads~~ Heads  
bright yellow.

*Erigeron Bloomeri* A. Gray  
var. *bloomeri*

*Erigeron Bloomeri* (6)

11453 - 20 June 1961  
Elko Co., Nev., same  
~~place as~~ place as  
11657. Bracts and  
anthers light  
greenish.

*Castilleja pallens*  
var. *inverta* (Nels. & Macbr.)  
Edwin

J. N. H. Holmgren



*Castilleja*

(8)

1165 Y - 26 June, 1980

2200 ft. alt. With  
*Wrightia amplexicaulis* and  
*Artemisia arbuscula*  
on stony (granitic and  
dark igneous) clay slopes  
overlooking Bull Run  
Reservoir from the south-  
east. Bull Run Basin,  
about 24 km. or there  
southwest of Mountain  
City, Travis Co., Texas,  
S. D. Elev. ca. 1900 m.  
1 = larvae of

*Lomatium* Cous (S. Wats.) Coul. +  
Rose  
cous type  
Carrot  
w. de  
bracts

6

11655 20 June, 1980,  
Elko Co. Nev. Same place  
as 11654. Flowers  
yellow.

*Lomatium leptocarpum*  
(T. & G.) Coul. & Rose

canad. number (3)



11656 - 20 June, 1980.

Same place as 11652.

Flowers yellow. Growing  
with #11657,

*C. modocensis* Greene,

but apparently distinct

*Crepis occidentalis* Nutt.

*Var. occidentalis*

*Crepis - bolus* (7)

11457 - 20 June 1980

Elko Co. Nev.

Same place as 11652.

~~Fls~~ Flowers yellow.

Leaves with the

SC, C. *serotina*

Nut.

, but  
apparently distinct.

*Crepis modocensis* Greene

Lar *modocensis*

*Crepis divaricata* (3)

11658 20 June 1980  
Elko Co., Nev. With  
*Artemisia arbuscula* on  
low, stony ridge south  
of Bull Run Basin, ca  
33 km aerial south-  
west of Mountain City,  
Twp. 43 N., ~~R.~~ R. 52 E.,  
S. 28. Elev. ca 1850 m.  
19403 27-37, often  
34, white to lavender.

*Erigeron nevadensis* Blake

*Erigeron nevadensis*

11659 ~~2/1/58~~

21 Jun. 1980 Elmer, Nev.  
With sagebrush on rocky,  
caliche soil on a low  
ridge about ~~1 km~~ <sup>8 or 9 km</sup> south-  
west of ~~Tuscarora~~  
Tuscarora and 58 road  
km. east of Midas. Twp 39 N.,  
R. 5 E. about S. 28. Elev.  
ca 1800 m. Corolla tube  
purple, the lips (or only  
the upper lip) blue.

*Penstemon kingii* S. Wats. ✓  
det N. H. Holmgren

*Penstemon*

(10)

478...

...

11660 - 21 June, 1980.

Elkhorn, Nev. Same place as

11659. Stems clustered,  
fleshy base ending.

Stems terete, glaucous,

*Astragalus curvicaarpus*

(A. A. Heller) J. E. Macbride

var. *curvicaarpus*

det. R. C. Barneby

*Astragalus curvicaarpus* 11660

21 June 1966  
Elko Co. The same  
place as 11699. Flowers  
nearly prostrate,  
only the tips  
erect. Flowers  
divided.

*Astragalus iodanthus* S. Wats  
det R. C. Barneby

*Astragalus iodanthus* S. Wats

11502. 21 Jan, 1980. Ohio  
Co. 100m. With sagebrush  
in light soil on very  
hottanlands along  
a dry wash (tributary to  
Wallem  
Creek) in the desert  
ca. 70 km. ~~anthen~~ air line sw.  
of the mesa and 30+ <sup>km</sup> E. of Midway.  
Elev. 3500 ft., L. ~~49~~ 49 E.

Spec. on 1/20/80.  
Plants colonial by rather  
deep seated ~~leaves~~.  
Flowers ~~small~~.

492-0

(4)

11663 - 21 June. TCD. —  
John Co., Nev. on  
stony, quartzitic ~~with~~  
south slope with  
little sagebrush, along a  
dry tributary to  
Wilson Creek, ca 20 km  
ridgeline southwest of Tuscar-  
ora, and 30+ km e. of Midsi.  
Elev. 1700 m.  
Twp. 39 N., R. 49 E., S. 35.

*Penstemon humilis* Nutt. ex  
A. Gray  
det. N. H. Holmgren

*Penstemon* ⑩



11664 21 June, 1980

Humboldt Co., Cal.  
with sagebrush and  
Atriplex in sandy clay  
soil in the desert ca.

30 km. section  
north of Pt. Gorda,  
Twp. 37 N., R. 43 E.,  
S. 4.

Elev. ca 1400 m.

Flowers white.

Stems much  
resembling the herb  
(ca 10 km. east of the aqueduct).

Desp. ✓/P

*Camissonia clavaeformis* (Torr. &  
Frem.) Raven, var. *integrifolia* (Raven)

*Chylisma* 10

11665 21 June, 1980  
Humboldt Co., Nev.  
Same place as 11664.  
Petals white.

*Camissonia boothii* (Dougl.)  
Raven  
var. *villosa* (S. Wats.)  
(= subsp. *gypsophilus*)

✓

*Antennaria* (2)

11665. 21 June, 1980

Herald & Co., N.Y.

Same place as 11664.

Pls. minute, please

Sam's son's name

Sam's son's name

V

Structure (D)

11667 22 June, 1980

Pershing Co., Nevada.

With ~~gum~~ juniper and  
sagebrush on rhyolitic  
east slope of the West  
Humboldt Mts., ca 13 km.  
airline east of Carlsbad,  
Twp. 28 N., R. 34 E., S. 4.

Elev. 1800 m.

Flowers blue

*Penstemon speciosus*

Ouag. ex Lindl.

det. N. H. Holmgren

*Penstemon speciosus* (L.)

11665 - 22 June 1980

Borshing Co., Nevada.

Same place as 11667. Plant's  
perennial, with (1-) several  
or rather many loosely  
accreting stems. Corolla  
small, sacroform, white  
with a yellow spot. The  
limb 2-3 mm wide, or  
smaller in later flowers.

Throat strongly rounded, sides  
the scar narrow,  
1-2 mm wide, near the  
base of the corolla.

*Cryptantha spiculifera*  
(Alf. & Pav.)

*Cryptantha* spiculifera  
narrow

11669 22 June, 1980  
Pavshing Co., Nev. Edge  
of the ~~red~~ Canyon wall,  
in rhyolitic porphyry soil  
along Buena Vista Creek  
in the ~~area~~ Humboldt  
Mts. 1+ km. above  
Clairmont, Nev. Temp 30°C.  
R. 3 & E., 528 or 29. Elev.  
ca 1650 m. Stems  
several from a woody  
root. Flowers ~~scarious~~,  
slender, narrow, rounded;  
corolla longer than calyx.  
*Scrophularia desertorum*  
(Munz) Simon

*Scrophularia* (D)

~~11770~~ 11670 11/1/1900

Leaching Co., 142 N. H.  
Sagebrush-guano slope  
on rhyolite - porphyry  
substrate along  
Buena Vista Creek in  
the West Humboldt  
Mts. above Unionville.  
Twp. 30 N., R. 34 E., S. 20.  
Elev. 1800 m. Intricate,  
branched, erect stem  
about 1 m. high.  
Flowers pinkish,  
held beneath the twigs.  
Symptomatic of *Cercophytum*  
*parishii* (Rydb.) Cronq.

*Cercophytum parishii* (7)





11 672. 26 June 1980  
Mono Co., Calif.

In sandy, pebbly soil  
with sagebrush and  
scattered Jeffrey Pine  
on the north side of  
Devil's Gate Pass,  
south end of the  
Sierra Nevada Mts.

(of granitic origin)

22.5 g wet weight, 23 mm  
Flowers open red all in  
the day. The corolla salverform  
the slender tube yellowish,  
12-15 ~~mm~~ mm long,  
the lobes 3-3.5 mm long,  
pink. The corolla with a  
carmine spot just above the  
sepal attachment ↓ to next page

yellowish base

*Linanthus bicolor* (Nutt.)  
Greene

*Linanthus* (10)

11673 - 26 June, 1980,  
Mono Co., Calif. Same place  
as 11672, but read  
elev. 2300 m.  
Plants mesophytic.  
Corolla deep blue,  
funnelform. Salverform,  
the lobes 2 mm long.



*Gilia gilvica* (Benth.)  
Greene  
var. *violacea* (A.A. Heller) Cronq.

*Gilia* 9 var. *violacea* (10)

11674. 1 July, 1980

Inyo Co., Calif.

Pinyon-juniper woodland  
at the south end of the  
White Mts., ca 9 km. by  
road south of Mesquite  
Pass.

Elev. ca 2500m.

Flowers lavender, openly  
salverform - 2-lobed.  
Seeds 4

✓  
*Phacelia vallis-mortae* Torr.

*Phacelia vallis-mortae* (Torr.)


11675 1 July, 1980

Inyo Co., Calif.

Pinyon-juniper woodland  
at the south end of the  
White Mts., ca. 6 km by road  
north of Westgard Pass.  
Elev. ca. 2350 m.

Heads yellow

*Hymenopappus filifolius* Hook  
var. *nanus* (Rydb.) Turner

*Hymenopappus* f.  6488

11076 (July 1980)  
Inyo Co., Calif.  
shale outcrop in  
Pinon-juniper woodland at  
the south end of the  
White Mts., ca. 6 mi. W.  
road to the Panamint  
Pass,  
Elev. 2000m.

Leaves and stems  
strongly blue-glaucous,  
flowers  
secund. Corolla  
pink-purple, very showy.

*Penstemon floridus* T.S. Brandegee  
var. *floridus*  
det. N. H. Holmgren

*Penstemon*

(3)

1677 1 July, 1980

Inyo Co., Calif.

Same place as 1675.

Flowers white

*Camissonia boothii*

(Dougl.) Raven

var. *desertorum* (Munz) ✓

*Camissonia*

(4)

11575 1 July. ~~1950~~

...  
...  
...

*Penstemon scarpidei*

Reck

det. H. H. Holmgren

*Penstemon* (C)



11679 May 1980  
Inyo Co., Calif.

Same place as 11675.

Foliage blue green.

Blossoms pink purple;  
wings white; keel

yellowish.

Stems branched.

*Astragalus oophorus* S. Wats

var. *oophorus*

det. R. C. Barneby

*Astragalus* ~~sp.~~ (11)

650 July 1933

Imyo Co. Calif.

Same place as 11275.

Leaves green.

petals white, others

dark green.

*Cymopterus aboriginum* /  
11275

(3) 7

11681 July 1980  
Inyo Co. Calif.

with *Artemisia tridentata*  
in pinyon-juniper woodland  
to the south end of the  
White Mts., ca 6 km or  
more south of Westgard  
Pass.

Elevation 2350 m.  
Slope 15° N.

*Castilleja chromosa* A Nels.  
det. N. H. Holmgren

*Castilleja* (3)

125. - July 1900

From the ...

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~~10000~~ 10003 10000  
Into the Cañon Rocky  
bottoms in basaltic country  
ca 9 km. east of Westgard  
Pass, at the south end of  
the White Mts. Elev. 1800 m.  
Intricately branched plants  
with several or more  
stems from a single  
base (C) which  
soon becoming sericeous.

*Stephanomeria tenuifolia*  
(Torr.) Hall

✓

*Stephanomeria* (3)

July 1901  
With atriplex opposite  
sandy p. they said on  
slope of valley ~~to~~ opposite  
and east of the white  
litter, toward the north  
end, ca. <sup>south</sup> ~~half~~ of  
Coaldale.

Stems several and stout  
tap root, suberose. Petioles  
pink ~~translucent~~ <sup>white</sup>

*Sphaeralcea ambigua* A. N. S. v.  
monticola (Kearney)

2371  
*Sphaerocarpus* *ambigua*

1165 July 1980  
Sierra de la Cruz, Nev.  
Campocaulis 684,  
Corolla minute,  
Pale lavender, Plants  
erect.

*Tiquilia nuttallii*  
(Hilleb.) Nutt. 1804



*Tiquilia* (6) *nuttallii*

1163 - 2 July 1965  
Big Bend Nat. Park  
after desert washes and  
grasslands on the plateau  
at the east side of Big  
Bend Valley, ca 12 km.  
south of Round Mountain,  
and across the valley from  
Marathon, ca 75 m.  
by road north of Big Bend  
Turnoff. #1163, 1164, 1165  
Elev. ca. 1900 m.

*Astragalus beckwithii* T. & G.

var. *purpureus* H. E. Jones

det R. C. Barneby

✓  
*Astragalus*





11688 2 July, 1980.

Nye Co., Nevada.

Same place as 11687.

Fls. annual. Heads white

*Chaenactis stevioides*  
Hook. & Arn.

✓

✓

*Chaenactis* (3)

1980 - 3 July, 1980

11. Mile (Pine Co., Nev.)

So. by (lineament) north

slope with pinyon

juniper, *Quercus* sp.

and *Artemisia* sp.

Timber line and down-

stream forest

camp. School Creek Mt.,

sect. 16 S., R

65 E. Elev. ca. 8500 m.

Plants short, bushy, but flowers

very numerous. Leaves

troughly glandular. Inflores-

cences terminal, numerous

det. H. Holm

Penstemon

*pachyphyllus*

var. *congestus* (M. E. Jones) N. H. Holm

Penstemon (6) green

11690. 3 July, 1980,  
White Pine Co., Nev.,  
Sampson as 11689.

*Physaria chamberlainii*  
~~Physaria~~ ✓

*Physaria* (D)

11691 3 July. 1980.

White Pine Co., Nev.

Same place as 11689.

*Penstemon eatonii* A. Gray

var. *eatonii*

det. M. H. Holmgren



Red Penstemon

7)

11692

... ..  
... ..  
... .. 11689.  
... ..  
... ..  
... ..  
... ..  
... ..

11690

... ..

Utahensis (Rydb.) A. Nels.

... .. (11691)

3 July, 1980

White Pine Co., Nevada

In pinon-juniper -  
- ~~Cercocarpus~~ woodland  
on granitic substrate  
at south side of  
Schellbourne Pass, in the  
~~Schell~~ Schell Creek Range,  
ca. 60 km. north of Ely.

Twp. 1 N., R. 10 E.,  
about S. 8. Elev.

ca. 2300 m. Stems  
loosely clustered and  
branching. Leaves - not  
caulic; no basal leaves. Flowers  
blue.

Perstemon

Watsonii A. Gray  
det. N.H. Holmgren

Franseria

(7)

11694 3 July, T&B  
White Pine Co., Nevada.  
Same place as 11693.  
Rays white, (20: 26-44  
(-118).

*Erigeron jonesii* Cronq. ✓

... .. *Erigeron* 6



11695. 3 July, 1980  
White Pine Co., Nevada.

Same place as 11693.

Inflorescence secund,  
Flowers blue.

*Penstemon speciosus* Dougl.  
ex Lindl.

det. N. H. Holmgren



*Penstemon* ? *speciosus* Dougl.

11696 - 16 July, 1980

Harney Co., Oregon. Burrow  
pit between highway and  
irrigated hay-meadow

in the lava plains ca

43 km ~~←~~ W. of Burns and  
2 km E. of Riley

Elev. ca 1250 m.

Corolla bright blue.

- lavender; the lower lips  
with 2 large, golden,  
white-margined spots.

*Portulaca*

(10)

7693

11697 16 July 1980.

Harney Co., Oregon.

Same place as 11696.

*Isolla* or *Isotria*?

lobes revincered,  
rather narrow along  
the tip, rounded subtruncate  
or slightly emarginate,

*Navarretia minima* Nutt.

*Nav. minima* (10)

11698. 16 July, 1928.  
Harney Co., (at 1928).  
Gravelly slope of  
barren pit. . . .  
as in 11696.

---

*Psilocarphus brevissimus*  
Nutt.

✓✓

*Psilocarphus* (3)

12699 - 16 July, 1980

Havner Co., Oregon.

Same place as 11696.

Corolla minute, white.

Plants loosely

erect - ascending.

*Plagiothryx Scouleri*

(Hook. + Arn.) I. M. Johnston  
var. *penicillatus* (Greene)

Crone.

*Plagiot. s. penic.* (6)

*Pentstemon palmeri* as  
on several roadside walls  
along highway between  
Montalvo & Monterey.

*Chamaelirium liliifolium*  
in some low hills  
Blackfoot & Solano Falls

*Leucis off. densa* in  
field & roadside wall  
Leaves small,  
with cordate-creeping  
leaves, 21-31 cm. wide,  
Corolla 4 cm. including the  
1.5 + cm spur (nearly 2 cm)

11700 - 16 July, 1980.  
Harney Co., Oregon.

Same place as 11696.

Plants tending to be  
stoloniferous. Corolla  
tub 9-10 mm wide,  
white with a yellow  
eye.

*Plagiobothrys mollis*  
(A. Gray) I. M. Johnston

*Plagiobothrys mollis* (5)

11701 16 July. 1980

~~Long~~ Harney Co., Oregon.

During ~~the~~ cracking  
clay at the margin of  
a roadside pond in  
sagebrush desert on the  
Great Plains ca 33 km.  
west of Hiley. 11.54 km.

east of the 101st Line

Elev. ca 1350 m.

Flowers bright

Golden yellow

*Orthocarpus campestris*  
Benth.

det. N. H. Holmgren ✓

Orthocarpus



27

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

12-1-14

2002-11-14. 1960

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2. 2. 2.

27 July

London 30. 3. 72

15. 7. 1954

— 41 —

Diff. no. 39051

29 July 1961

1.0107. ca; loc. 59436

Monday

80

Monday July

8 62-100

18.0 at 100

10.1 100

80-100

3-100

194 ~~100~~ 66

15 100 at Conway 10312

region south  
L. Raymond & Greta  
Eslerholdt

North edge aligns,  
westward, nearly  
a little north to the  
middle like block that  
is to the north to the  
school.

Alden Liddaway  
aligns us to beneath

W C A. Steele.

Gen. H. H. H. H. H. H.

Gen. H. H. H. H. H. H.

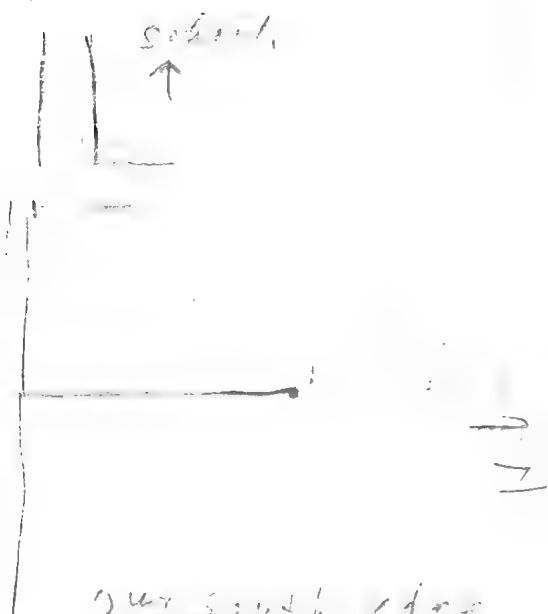
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Gen. H. H. H. H. H. H.



our south side  
align with the  
south edge of the  
Street that runs  
~~so far~~ by the  
south of Blackart.

13th. S E 1/4  
11th. N E 1/4

208 459 5011

College of Idaho

Independence 84117

191133

191136

191138

191139

191140

1st 1st 1st 1st 1st

McKee Co. 1st 1st 1st to  
Kanting

Freemhall

202-389-6434

✓ J. B. SIMMONS

1st 1st 1st 1st 1st

1st 1st 1st 1st 1st

1st 1st 1st 1st 1st

TW9 3AB

England

Wartburg 1st 1st 1st

23441.1 2' 52. 1st 2' 52. 1st

449.9 at 1st 2' 52. 1st

476.6 at 1st 2' 52. 1st

7 139N : 1st 2' 52. 1st

1800 m.

W C dan 446 4756

Midas 83512.0

W C dan 83581. 12.8 90.

Low 1st 2' 52. 1st 83557

1st 2' 52. 1st

1st 2' 52. 1st

87.4 km north

1st 2' 52. 1st

1st 2' 52. 1st 83800 1st

1st 2' 52. 1st

1st 2' 52. 1st 83800 1st

19.7 90. 118.7



Allium roseae  
clustered, bulbs deep  
(~~up~~ up to 4").  
fls pink (rarely albino)

A. Simillimum  
single - bulbs just  
breast high. fls white  
at higher alt., but  
at lower alt. there  
are mixed pink & white  
& wholly pink populations.  
4145 at Moggi Summit.



Inasmuch as I wrote an unfavorable review of Korfes's earlier compilation of lists of endangered species, I should point out that I find the ~~new~~ checklist to be a very respectable job. ~~Many individual decisions are~~  
~~necessary to me~~ There are inevitable, most debatable decisions, but the overall performance is commendable.

21. June 1978

44507.5 at Jct. 4 of  
Settle Dale

529.2 at petroglyphs

Settle Dale

22 June

44644.0 at Jct for

Settle Dale

44654.0 at Jct. 4 of

44669.1 at Hydrogen Jct.

600.0 at Jct. 4 of

600.0 at Jct. 4 of

688.0 at Jct. 4 of

690.7 at Jct. 4 of

693.0 at Jct. 4 of

698.0 at Jct. 4 of

3 June 1977, 79250 at ...  
...  
...

7 June 80197 at Fremont, O.  
19.8 gal. at 80741  
13.3 at 80741

10 June 80901 at Atkinson, Ill.  
18.2 gal. at 81043  
15.2 gal at 81319

11 June 81435 at Kearney, Neb.  
17.2 at 81607

12 June 81811 at Leavenworth, Kan.  
13.1 at 81813

13- June 82056 at Thales App. Co.

4 June 82426  
at Eagle Canyon,  
San Rafael Swell

55.5  
5  
51.5



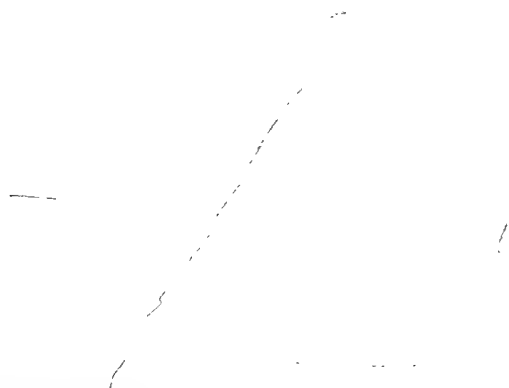


1. 1000 ft. 1000 ft.

2. 1000 ft. 1000 ft.

3. 1000 ft. 1000 ft.

4.



1. 1000 ft. 1000 ft.



914-694-1622

Hank Klein.



29 Nov. found in box.

Archie  
Cronquist

10/2/75

7 June.

22 S. 8 E

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 47

Mars in Morsu H2e

